

# INTERNATIONAL SEARCH REPORT

Interr      Application No  
PC1 / 2004/008683

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7    C07K14/415    C12N15/82    A01H5/00    C12N15/29

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7    C07K    C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, BIOSIS, Sequence Search, EMBASE, WPI Data, PAJ, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ROSSI M ET AL: "The nematode resistance gene Mi of tomato confers resistance against the potato aphid" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 95, no. 17, 18 August 1998 (1998-08-18), pages 9750-9754, XP002262826 ISSN: 0027-8424 cited in the application the whole document  -/--	1-19, 21-31, 34-43

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

2 November 2004

Date of mailing of the international search report

24/11/2004

Name and mailing address of the ISA

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PC1/EP2004/008683

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>&amp; DATABASE EMBL 'Online! 19 August 1998 (1998-08-19), "Lycopersicon esculentum disease resistance gene homolog Mi-copy2 gene, complete cds; resistance gene pseudogene, complete sequence; disease resistance gene homolog Mi-copy1 gene, complete cds; and unknown gene." retrieved from EBI accession no. EM_PRO:U81378 Database accession no. U81378</p>	1-19, 21-31, 34-43
X	<p>WO 98/06750 A (ZABEAU MARC ; SIMONS GUUS (NL); KEYGENE NV (NL); VOS PIETER (NL); WIJB) 19 February 1998 (1998-02-19) page 13, line 5 - line 18; figures 5,7</p>	1-19, 21-31, 34-43
X	<p>MILLIGAN S B ET AL: "The root knot nematode resistance gene Mi from tomato is a member of the leucine zipper, nucleotide binding, leucine-rich repeat family of plant genes" PLANT CELL, AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS, ROCKVILLE, MD, US, vol. 10, no. 8, August 1998 (1998-08), pages 1307-1319, XP002262827 ISSN: 1040-4651 cited in the application page 1311, column 2, paragraph 2 - page 1315, column 2, paragraph 1</p>	1-19, 21-31, 34-43
X	<p>DATABASE EMBL 'Online! 13 November 2001 (2001-11-13), "Solanum nigrum NBS-LRR pseudogene, partial sequence." XP002262829 retrieved from EBI accession no. EM_PRO:AY055116 Database accession no. AY055116 cited in the application abstract</p>	1-43
X	<p>SONG J ET AL: "Gene RB cloned from Solanum bulbocastanum confers broad spectrum resistance to potato late blight" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 100, no. 16, 5 August 2003 (2003-08-05), pages 9128-9133, XP002262828 ISSN: 0027-8424 cited in the application figure 4</p>	1-43

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PCT/EP2004/008683

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BRADEEN J M ET AL: "CONCOMITANT REITERATIVE BAC WALKING AND FINE GENETIC MAPPING ENABLE PHYSICAL MAP DEVELOPMENT FOR THE BROAD-SPECTRUM LATE BLIGHT RESISTANCE REGION, RB" MGG - MOLECULAR GENETICS AND GENOMICS, SPRINGER VERLAG, BERLIN, DE, vol. 269, no. 5, August 2003 (2003-08), pages 603-611, XP009021738 ISSN: 1617-4615 the whole document -----	1-43
P,X	EP 1 334 979 A (K WEEK EN RES BEDRIJF AGRICO B) 13 August 2003 (2003-08-13) the whole document -----	1-43
P,X	VAN DER VOSSEN EDWIN ET AL: "An ancient R gene from the wild potato species Solanum bulbocastanum confers broad-spectrum resistance to Phytophthora infestans in cultivated potato and tomato." PLANT JOURNAL, vol. 36, no. 6, December 2003 (2003-12), pages 867-882, XP002303445 ISSN: 0960-7412 the whole document -----	1-43

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PC 1, / L 2004/008683

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9806750	A	19-02-1998	EP 0823481 A1	11-02-1998
			AT 279523 T	15-10-2004
			AU 735063 B2	28-06-2001
			AU 4454097 A	06-03-1998
			BR 9711048 A	11-01-2000
			CA 2262411 A1	19-02-1998
			WO 9806750 A2	19-02-1998
			EP 0937155 A2	25-08-1999
			JP 2001500006 T	09-01-2001
			KR 2000029896 A	25-05-2000
			NZ 334077 A	29-09-2000
			PL 331542 A1	19-07-1999
			RU 2221044 C2	10-01-2004
			TR 9900277 T2	21-05-1999
			US 6613962 B1	02-09-2003
EP 1334979	A	13-08-2003	EP 1334979 A1	13-08-2003
			CA 2475467 A1	14-08-2003
			WO 03066675 A1	14-08-2003
			US 2003221215 A1	27-11-2003